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. 3	1. A filter case coupling assembly comprising:
4	at least one coupling protrusion formed at a filter case having a noise filter inside; and
5	at least one guide rail formed at a plate to guide the coupling protrusion to slide to be
6	inserted therein wherein the filter case is mounted on the plate.
7	
8	2. The filter case as claimed in claim 1, wherein the coupling protrusion
9	protrudes in a lateral direction from a lower edge of each side of the filter case.
10	
11	3. The filter case as claimed in claim 1, the coupling protrusion comprising:
12	a body protruding downward from a bottom of the filter case; and
13	guide protrusions protruding in a lateral direction from lower edges of both sides of
14	the body, respectively.
15	
16	4. The filter case as claimed in claim 1, wherein a front side of the guide rail is
17	blocked so that the coupling protrusion inserted as long as a predetermined distance is unable
18	to move ahead.
19	
20	5. A washing machine comprising:
21	a tub to hold water;
22	a drum rotatably installed in the tub to hold laundry;
23	a cabinet having the tub and drum inside;
24	a control panel coupled to the cabinet to have a control unit inside;

What is claimed is:

25	a filter case having a noise filter inside, the noise filter preventing the control signals
26	carried on the wires 80 from interfering with other signals or from attenuating; and
27	a filter case coupling assembly sliding on the cabinet and coupling the filter case to
28	the cabinet.
29	
30	6. The washing machine as claimed in claim 5, wherein the filter case is
31	coupled to a top plate forming a topside of the cabinet.
32	
33	7. The washing machine as claimed in claim 6, wherein the filter case is
34	coupled to an upper surface of the top plate.
35	
36	8. The washing machine as claimed in claim 7, the filter case coupling
37	assembly comprising:
38	a pair of coupling protrusions protruding in a lateral direction from lower edges of
39	both sides of the filter case, respectively; and
40	a pair of guide rails formed at the top plate to guide the coupling protrusions to slide
41	to be inserted therein for coupling.
42	
43	9. The washing machine as claimed in claim 7, the filter case coupling
44	assembly comprising:
45	at least one coupling protrusion protruding from a bottom of the filter case; and
46	at least one guide rail formed at the top plate to guide the coupling protrusion to slide
47	to be inserted therein for coupling.

49	10. The washing machine as claimed in claim 9, the coupling protrusion
50	comprising:
51	a body protruding downward from the bottom of the filter case; and
52	a pair of guide protrusions protruding in a lateral direction from lower edges of both
53	sides of the body, respectively.
54	
55	11. The washing machine as claimed in claim 8, wherein a front side of the guide
56	rail is blocked so that the coupling protrusion inserted as long as a predetermined distance is
57	unable to move ahead.
58	
59	12. The washing machine as claimed in claim 9, wherein a front side of the guide
50	rail is blocked so that the coupling protrusion inserted as long as a predetermined distance is
51	unable to move ahead.
2	
3	13. The washing machine as claimed in claim 7, wherein the control panel is
4	coupled to rear parts of the upper surface of the top plate.
5	
6	14. The washing machine as claimed in claim 13, wherein the filter case is
7	provided under the control panel.